SEQUENCE LISTING

<110> Smith, Edward
      Elfstrom, Carita
      Gelfand, David
      Higuchi, Russell
      Myers, Thomas
      Schoenbrunner, Nancy
      Wang, Alice

<120> HIGH TEMPERATURE REVERSE TRANSCRIPTION USING MUTANT DNA POLYMERASES

<130> RPA1006

<150> US 60/198,336
<151> 2000-04-18

<160> 21

<170> PatentIn version 3.0

<210> 1
<211> 11
<212> PRT
<213> Artificial

<220>
<223> sequence motif

<220>
<221> VARIANT
<222> (2)..(2)
<223> X is S or A

<220>
<221> VARIANT
<222> (3)..(3)
<223> X is any amino acid

<220>
<221> VARIANT
<222> (4)..(4)
<223> X is any amino acid

<220>

```
<221>  VARIANT
<222>  (5)..(5)
<223>  X is L or I


<220>
<221>  VARIANT
<222>  (6)..(6)
<223>  X is any amino acid


<220>
<221>  VARIANT
<222>  (7)..(7)
<223>  X is any amino acid


<220>
<221>  VARIANT
<222>  (8)..(8)
<223>  X is any amino acid


<220>
<221>  VARIANT
<222>  (9)..(9)
<223>  X is any amino acid


<220>
<221>  VARIANT
<222>  (10)..(10)
<223>  X is any amino acid


<400>  1

Leu Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Glu
1               5                   10

<210>  2
<211>  11
<212>  PRT
<213>  Artificial

<220>
<223>  sequence motif
```

```
<220>
<221>   VARIANT
<222>   (3)..(3)
<223>   X is Q or G


<220>
<221>   VARIANT
<222>   (6)..(6)
<223>   X is S or A


<400>   2

Leu Ser Xaa Glu Leu Xaa Ile Pro Tyr Glu Glu
1               5                   10


<210>   3
<211>   11
<212>   PRT
<213>   Artificial

<220>
<223>   sequence motif

<400>   3

Leu Ser Gln Glu Leu Ala Ile Pro Tyr Glu Glu
1               5                   10

<210>   4
<211>   11
<212>   PRT
<213>   Artificial

<220>
<223>   sequence motif

<220>
<221>   VARIANT
<222>   (3)..(3)
<223>   X is Q or G


<400>   4

Leu Ser Xaa Glu Leu Ser Ile Pro Tyr Glu Glu
1               5                   10
```

```
<210>   5
<211>   11
<212>   PRT
<213>   Artificial

<220>
<223>   sequence motif

<220>
<221>   VARIANT
<222>   (7)..(7)
<223>   X is V or I


<400>   5

Leu Ser Val Arg Leu Gly Xaa Pro Val Lys Glu
1                   5                   10

<210>   6
<211>   11
<212>   PRT
<213>   Artificial

<220>
<223>   sequence motif

<400>   6

Leu Ser Lys Arg Ile Gly Leu Ser Val Ser Glu
1                   5                   10

<210>   7
<211>   11
<212>   PRT
<213>   Artificial

<220>
<223>   sequence motif

<220>
<221>   VARIANT
<222>   (8)..(8)
<223>   X is S or T


<400>   7
```

```
Leu Ala Gln Asn Leu Asn Ile Xaa Arg Lys Glu
1               5               10
```

<210> 8
<211> 11
<212> PRT
<213> Thermus aquaticus

<400> 8

```
Leu Ser Gln Glu Leu Ala Ile Pro Tyr Glu Glu
1               5               10
```

<210> 9
<211> 11
<212> PRT
<213> Thermus flavus

<400> 9

```
Leu Ser Gly Glu Leu Ser Ile Pro Tyr Glu Glu
1               5               10
```

<210> 10
<211> 11
<212> PRT
<213> Thermus thermophilus

<400> 10

```
Leu Ser Gln Glu Leu Ala Ile Pro Tyr Glu Glu
1               5               10
```

<210> 11
<211> 11
<212> PRT
<213> Thermus sp. Z05

<400> 11

```
Leu Ser Gln Glu Leu Ala Ile Pro Tyr Glu Glu
1               5               10
```

<210> 12
<211> 11
<212> PRT
<213> Thermus sp. sps17

<400> 12

Leu Ser Gln Glu Leu Ser Ile Pro Tyr Glu Glu
1   5   10

<210>   13
<211>   11
<212>   PRT
<213> Thermus caldophilus

<400>   13

Leu Ser Gln Glu Leu Ala Ile Pro Tyr Glu Glu
1   5   10

<210>   14
<211>   11
<212>   PRT
<213> Thermus filiformis

<400>   14

Leu Ser Gln Glu Leu Ser Ile Pro Tyr Glu Glu
1   5   10

<210>   15
<211>   11
<212>   PRT
<213> Thermotoga maritima

<400>   15

Leu Ser Val Arg Leu Gly Val Pro Val Lys Glu
1   5   10

<210>   16
<211>   11
<212>   PRT
<213> Thermotoga neapolitana

<400>   16

Leu Ser Val Arg Leu Gly Ile Pro Val Lys Glu
1   5   10

<210>   17
<211>   11

```
<212>    PRT
<213>    Thermosipho africanus

<400>    17

Leu Ser Lys Arg Ile Gly Leu Ser Val Ser Glu
1                   5                   10


<210>    18
<211>    11
<212>    PRT
<213>    Bacillus caldotenax

<400>    18

Leu Ala Gln Asn Leu Asn Ile Ser Arg Lys Glu
1                   5                   10


<210>    19
<211>    11
<212>    PRT
<213>    Bacillus stearothermophilus

<400>    19

Leu Ala Gln Asn Leu Asn Ile Thr Arg Lys Glu
1                   5                   10

<210>    20
<211>    20
<212>    DNA
<213>    Artificial

<220>
<223>    primer

<400>    20
cgagatccct ccaaaatcaa                                           20


<210>    21
<211>    23
<212>    DNA
<213>    Artificial

<220>
<223>    primer
```

<400> 21
catgagtcct tccacgatac caa   23